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Smart antenna system with structure of pre-beam forming device
by

multi-path and adaptive equalization coupler by frequency
component of
multi-path signal

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Patent Family:

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Patent Details:

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Abstract (Basic): KR 2001011216 A

NOVELTY - A smart antenna system with a structure of a pre-beam forming device by a multi-path and an adaptive equalization coupler by a frequency component of a multi-path signal are provided to reduce the inter-symbol interference or the co-channel interference by using a pre-beam forming device for each multi-path signal and a delay time compensation circuit.

DETAILED DESCRIPTION - A smart antenna system with a structure of a pre-beam forming device by a multi-path and an adaptive equalization coupler by a frequency component of a multi-path signal comprises a synchronization portion(10), an estimation portion(20), a pre-beam forming portion(30), a delay time compensation portion(40), and an adaptive equalization portion(50a,50b). The synchronization portion(10) synchronizes the received signal. The estimation portion(20) estimates a delay time for a multi-path by using a characteristic of a pilot signal and a pre-beam forming weight value vector by using the estimated delay time. The pre-beam forming portion(30) forms an independent beam by the multi-path signals. The delay time compensation portion(40) compensates the delay time. The adaptive equalization portion(50a,50b) equalizes signals according to frequencies of signals of each path.

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Title Terms: SMART; ANTENNA; SYSTEM; STRUCTURE; PRE; BEAM; FORMING; DEVICE;

MULTI; PATH; ADAPT; COUPLE; FREQUENCY; COMPONENT; MULTI; PATH; SIGNAL

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